

CONNECTIONLESS COMMUNICATION SYSTEM

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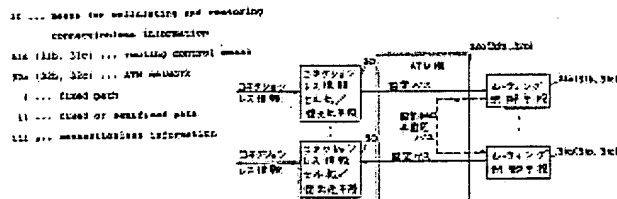
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Local connectionless information (data transferred directly without establishing a path to the destination) such as data of a local area network (LAN) is contained in an asynchronous transfer mode (ATM) network which uses a connection-oriented communication system (a system in which data is transferred after confirming the establishment of a path to the destination), and efficient, high speed routing can be made. Provided are a means (30) for cellulating/restoring connectionless information which bidirectionally performs conversion from the connectionless information to the connectionless cell of a fixed-length cell, and vice versa, a routing control means (31) which analyzes the destination address of the information in the connectionless cell and controls the routing of the cell, and an ATM network (32) which connects the means (30) with the means (31) by a permanent virtual channel of a fixed path, and connects the means (31) with each other by a permanent virtual channel of a fixed path or by a virtual channel of a semifixed path. Thus, connectionless information is divided into cells, and the exchange of each cell can be performed in an ATM network.



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(21) 国際出願番号 PCT/J P92/00098 (22) 国際出願日 1992年1月31日 (31. 01. 92) (30) 優先権データ 特願平 3/10770 1991年1月31日 (31. 01. 91) JP 特願平 3/55020 1991年3月19日 (19. 03. 91) JP 特願平 3/134745 1991年6月6日 (06. 06. 91) JP 特願平 3/143350 1991年6月14日 (14. 06. 91) JP 特願平 3/168038 1991年7月9日 (09. 07. 91) JP 特願平 3/208262 1991年8月20日 (20. 08. 91) JP (71) 出願人 (米国を除くすべての指定国について) 富士通株式会社 (FUJITSU LIMITED) [JP/JP] 〒211 神奈川県川崎市中原区上小田中1015番地 Kanagawa, (JP) (72) 発明者; および (75) 発明者/出願人 (米国についてのみ) 高瀬忠浩 (TAKASE, Tadahiro) [JP/JP] 〒870 大分県大分市生石1丁目6番6号 セゾン・ウェストコート101 Oita, (JP) 初鹿野一雄 (HAJIKANO, Kazuo) [JP/JP] 川崎 健 (KAWASAKI, Takeshi) [JP/JP] 下江敏夫 (SHIMOE, Toshio) [JP/JP] 横 哲夫 (TACHIBANA, Tetsuo) [JP/JP] 萩原照明 (HAGIHARA, Teruaki) [JP/JP] 加久間哲 (KAKUMA, Satoshi) [JP/JP]		村山雅美 (MURAYAMA, Masami) [JP/JP] 武智竜一 (TAKEOHI, Ryuichi) [JP/JP] 黒柳智司 (KUROYANAGI, Satoshi) [JP/JP] 鴨井條達 (KAMOI, Jyoei) [JP/JP] 朝永 博 (TOMONAGA, Hiroshi) [JP/JP] 〒211 神奈川県川崎市中原区上小田中1015番地 富士通株式会社内 Kanagawa, (JP) (74) 代理人 弁理士 大菅義之 (OSUGA, Yoshiyuki) 〒102 東京都千代田区麹町6丁目1番18号 麹町共栄ビル Tokyo, (JP) (81) 指定国 AT (欧州特許), AU, BE (欧州特許), CA, CH (欧州特許), DE (欧州特許), DK (欧州特許), ES (欧州特許), FR (欧州特許), GB (欧州特許), GR (欧州特許), IT (欧州特許), JP, LU (欧州特許), MC (欧州特許), NL (欧州特許), SE (欧州特許), US. 添付公開書類 国際調査報告書	

(54) Title: CONNECTIONLESS COMMUNICATION SYSTEM

(54) 発明の名称 コネクションレス通信方式

30 ... means for cellulating and restoring
 connectionless information

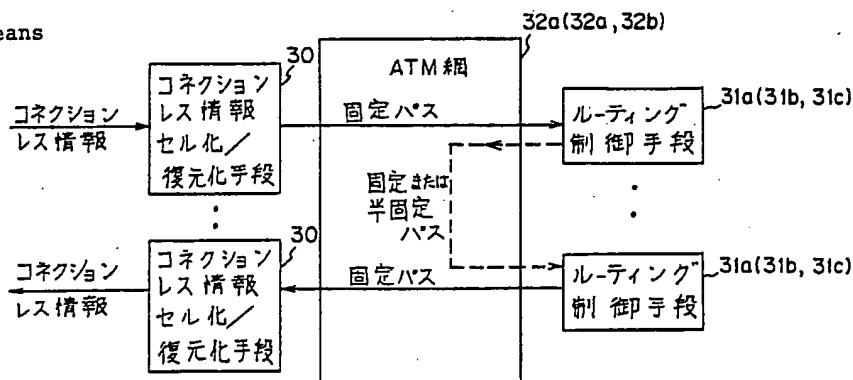
31a (31b, 31c) ... routing control means

32a (32b, 32c) ... ATM network

i ... fixed path

ii ... fixed or semifixed path

iii ... connectionless information



(57) Abstract

Local connectionless information (data transferred directly without establishing a path to the destination) such as data of a local area network (LAN) is contained in an asynchronous transfer mode (ATM) network which uses a connection-oriented communication system (a system in which data is transferred after confirming the establishment of a path to the destination), and efficient, high speed routing can be made. Provided are a means (30) for cellulating/restoring connectionless information which bidirectionally performs conversion from the connectionless information to the connectionless cell of a fixed-length cell, and vice versa, a routing control means (31) which analyzes the destination address of the information in the connectionless cell and controls the routing of the cell, and an ATM network (32) which connects the means (30) with the means (31) by a permanent virtual channel of a fixed path, and connects the means (31) with each other by a permanent virtual channel of a fixed path or by a virtual channel of a semifixed path. Thus, connectionless information is divided into cells, and the exchange of each cell can be per-